

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 **(Currently Amended)** 1. A method of forming a mixed fiber mat, the method
2 comprising:

3 (a) forming a multi-layer mat from a first continuous strand glass fiber mat
4 and a first layer of thermoplastic fibers, wherein the glass fibers in the mat
5 have an engineered, non-random orientation; and
6 (b) needle-punching the multi-layer mat to intertwine the fibers.

1 **(Original)** 2. The method in accordance with claim 1, wherein the thermoplastic
2 fibers further comprise polypropylene fibers.

1 **(Original)** 3. The method in accordance with claim 2, wherein the step of forming the
2 multi-layer mat further comprises disposing staple polypropylene fibers on a first side
3 of the continuous strand glass fiber mat.

1 **(Original)** 4. The method in accordance with claim 3, wherein the step of forming the
2 multi-layer mat further comprises disposing staple polypropylene fibers on a second
3 side of the continuous strand glass fiber mat.

1 **(Original)** 5. The method in accordance with claim 4, further comprising the step of
2 forming at least one additional layer.

1 **(Original)** 6. The method in accordance with claim 3, wherein the step of forming the
2 multi-layer mat further comprises disposing a second continuous strand glass fiber mat
3 on a side of the first layer of polypropylene fibers that is opposite the first continuous
4 strand glass fiber mat.

1 **(Original)** 7. The method in accordance with claim 3, wherein the step of forming the
2 multi-layer mat further comprises disposing a second glass fiber mat on a side of the
3 first layer of polypropylene fibers that is opposite the first continuous strand glass
4 fiber mat.

1 **(Original)** 8. The method in accordance with claim 3, wherein the step of forming the
2 multi-layer mat further comprises disposing a plurality of staple glass fibers on a side
3 of the first layer of polypropylene fibers that is opposite the first continuous strand
4 glass fiber mat.

1 **(Original)** 9. The method in accordance with claim 2, further comprising the steps of
2 placing the multi-layer mat in a mold at sufficient pressure and temperature to melt the

3 polypropylene fibers, and then cooling the multi-layer mat to a temperature sufficient
4 to harden the melted polypropylene fibers.

1 **(Original)** 10. The mixed fiber mat producing according to the method of claim 1.

1 **(Currently Amended)** 11. A mixed fiber mat comprising a first continuous strand
2 glass fiber mat and a first layer of thermoplastic fibers needle-punched together to
3 intertwine the fibers, wherein the glass fibers in the mat have an engineered, non-
4 random orientation.

1 **(Original)** 12. The mixed fiber mat in accordance with claim 11, wherein the
2 thermoplastic fibers are staple polypropylene fibers.

1 **(Original)** 13. The mixed fiber mat in accordance with claim 12, wherein the layer of
2 staple polypropylene fibers are disposed on a first side of the continuous strand glass
3 fiber mat.

1 **(Original)** 14. The mixed fiber mat in accordance with claim 13, further comprising
2 staple polypropylene fibers disposed on a second, opposite side of the continuous
3 strand glass fiber mat.

1 **(Original)** 15. The mixed fiber mat in accordance with claim 14, further comprising
2 at least one additional fiber layer.

1 **(Original)** 16. The mixed fiber mat in accordance with claim 13, further comprising a
2 second continuous strand glass fiber mat disposed on a side of the first layer of
3 polypropylene fibers that is opposite the first continuous strand glass fiber mat.

1 **(Original)** 17. The mixed fiber mat in accordance with claim 13, further comprising a
2 second glass fiber mat disposed on a side of the first layer of polypropylene fibers that
3 is opposite the first continuous strand glass fiber mat.

1 **(Original)** 18. The mixed fiber mat in accordance with claim 13, further comprising a
2 plurality of staple glass fibers disposed on a side of the first layer of polypropylene
3 fibers that is opposite the first continuous strand glass fiber mat.